

#24/2001

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PATENT

Applicant: **Marcus A. Horwitz t. al.**Serial No.: **08/786,533**Filed: **January 21, 1997**Title: **ABUNDANT EXTRACELLULAR
PRODUCTS & METHODS FOR
THEIR PRODUCTION & USE**Examiner: **K. Canella**Group Art Unit: **1645**Atty Docket No.: **510030-143**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

OK to enter - KAC

Sir:

Pursuant to the Office Action dated October 2, 2002, Applicants respond as follows:

Please amend claims 1, 2, 3, 6, 7, 8, 11, 12, 14, 15, 17, 18, 20, 21, 23, and 25 as follows:

1. A vaccinating agent for use in promoting an effective immune response, in a mammalian host, against an infectious pathogen from the genus *Mycobacterium*, said vaccinating agent comprising:

at least a portion of at least one majorly abundant secreted extracellular product selected from the group consisting of *M. tuberculosis* 110 KD protein, 80 KD protein, 71 KD protein, 58 KD protein, 45 KD protein, 30 KD protein, 24 KD protein, 23.5 KD protein, 23 KD protein, 16 KD protein, 14 KD protein, 12 KD protein and respective analogs, homologs, and subunits thereof; and

an adjuvant selected from the group consisting of IL-12 and MF 59.

2. The vaccinating agent of claim 1 wherein said at least one majorly abundant secreted extracellular product is *M. tuberculosis* 30 KD protein.

3. The vaccinating agent of claim 1 wherein said at least one majorly abundant secreted extracellular product is a mixture of *M. tuberculosis* 32A KD protein, 30 KD protein, and 16 KD protein.

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FAX COVER LETTER

October 16, 2002

TO: U.S. Patent and Trademark Office
EXAMINER: K. Canella
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FROM: Louis C. Cullman
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RE: Applicant: Marcus A. Horwitz et al; S/N: 08/786,533; Filed: 01/21/1997
Our File No. 510030-143 – Response to Office Action dated October 2, 2002

COMMENTS: Please see attached.

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